

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Karl Kenna (Registration No. 45,445) on 11/18/2009.

3. Amend the following claims:

1. (Currently Amended) A system for providing access between an application at a mobile device, and a web service at a server, comprising:

a processor;

a server comprising ~~[[a]]~~ the processor, database, provisioning service, store and forward manager, web service, and one or more interface plugins for use by different types of mobile devices;

~~[[a]]~~ the mobile device comprising a memory, processor, and software application executing thereon, wherein the mobile device further comprises

a runtime environment program, which displays software applications provisioned by the provisioning service, wherein the runtime environment program interacts with the server via an interface to receive ~~[[the]]~~ provisioned applications and asynchronously update application data between the mobile device and the database,

Art Unit: 2194

a software application, which is provided by the provisioning service in a markup language and which is displayable on the mobile device by the runtime environment program, wherein each independent instance of the software application receives a unique incarnation ID, which is used by the runtime environment program to uniquely associate data received from the server with a particular instance of the software application on the mobile device.

an application data store, residing in the memory of the mobile device, which is used to store the application data for use by the software application, and templates for use by the runtime environment program in displaying the software application and the application data therein, and wherein the application data at the mobile device is persisted locally with the database at the server when [[the]]_a connection between the mobile device and the server is available, including when the software application is either running or not running; wherein, while the software application executes on the mobile device, the runtime environment program sends messages to the server through its interface, in a lower level message transport format associated with that mobile device type, to retrieve, use, or update the application data; and

wherein the server receives the messages, through an interface plugin configured for that mobile device type, and converts the messages received from the runtime environment program into messages that are independent of mobile device type, for subsequent communication to the web service, and provides responses accordingly, including using the store and forward manager to store the responses at the server until the connection between the mobile device and the server is available.

Art Unit: 2194

24. (Currently Amended) A method for providing access between an application at a mobile device, and a web service at a server, comprising [[the]] steps of:

providing a server comprising a processor, database, provisioning service, store and forward manager, web service, and one or more interface plugins for use by different types of mobile devices;

providing a mobile device comprising a memory, processor, and software application executing thereon, wherein the mobile device further comprises

a runtime environment program, which displays software applications provisioned by the provisioning service, wherein the runtime environment program interacts with the server via an interface to receive [[the]] provisioned applications and asynchronously update application data between the mobile device and the database,

a software application, which is provided by the provisioning service in a markup language and which is displayable on the mobile device by the runtime environment program, wherein each independent instance of the software application receives a unique incarnation ID, which is used by the runtime environment program to uniquely associate data received from the server with a particular instance of the software application on the mobile device,

an application data store, residing in the memory of the mobile device, which is used to store

the application data for use by the software application, and

templates for use by the runtime environment program in displaying the software application and the application data therein, and

Art Unit: 2194

wherein the application data at the mobile device is persisted locally with the database at the server when [[the]]_a connection between the mobile device and the server is available, including when the software application is either running or not running; sending messages, while the software application executes on the mobile device, from the runtime environment program to the server through its interface, in a lower level message transport format associated with that mobile device type, to retrieve, use, or update the application data; and

receiving the messages at the server, through an interface plugin configured for that mobile device type, and converts the messages received from the runtime environment program into messages that are independent of mobile device type, for subsequent communication to the web service, and provides responses accordingly, including using the store and forward manager to store the responses at the server until the connection between the mobile device and the server is available.

47. (Currently Amended) A computer readable storage medium, including instructions stored thereon which when executed cause [[the]]_a computer to perform [[the]] steps comprising: providing a server comprising a processor, database, provisioning service, store and forward manager, web service, and one or more interface plugins for use by different types of mobile devices;

receiving messages at the server, from a mobile device comprising a memory, processor, and software application executing thereon, in a lower level message transport format associated with that mobile device type, to retrieve, use, or update [[the]] application data wherein the mobile device further comprises

Art Unit: 2194

a runtime environment program, which displays software applications provisioned by the provisioning service, wherein the runtime environment program interacts with the server via an interface to receive [[the]] provisioned applications and asynchronously update application data between the mobile device and the database,

a software application, which is provided by the provisioning service in a markup language and which is displayable on the mobile device by the runtime environment program, wherein each independent instance of the software application receives a unique incarnation ID, which is used by the runtime environment program to uniquely associate data received from the server with a particular instance of the software application on the mobile device,

an application data store, residing in the memory of the mobile device, which is used to store

the application data for use by the software application, and

templates for use by the runtime environment program in displaying the software application and the application data therein, and

wherein the application data at the mobile device is persisted locally with the database at the server when [[the]]_a connection between the mobile device and the server is available, including when the software application is either running or not running; and

converting the messages received from the runtime environment program through an interface plugin configured for that mobile device type, into messages that are independent of mobile device type, for subsequent communication to the web service, and providing responses

Art Unit: 2194

accordingly, including using the store and forward manager to store the responses at the server until the connection between the mobile device and the server is available.

51. (Currently Amended) The computer readable storage medium of claim 47, wherein the mobile device and the sever use asynchronous messaging.

52. (Currently Amended) The computer readable storage medium of claim 47, wherein messages are stored until a connection between the mobile device and server is available.

61. (Currently Amended) The computer readable storage medium of claim 47, wherein the application receives data from the web service.

65. (Currently Amended) The computer readable storage medium of claim 47, wherein the messages sent from the mobile device to the server are sent as a block of data in a simplified message format which contains a fragment of a file in the markup language format.

74. (Currently Amended) The system of claim 1, wherein the software application running within the runtime environment program includes a collection of screens containing [[the]] user interface information and message handlers which process messages received from the server.

79. (Currently Amended) The method of claim 24, wherein the software application running within the runtime environment program includes a collection of screens containing [[the]] user interface information and message handlers which process messages received from the server.

3. The following is an examiner's statement of reasons for allowance:

As to claims 1, 24, 47, the prior art as taught by Richards et al. (US 2002/0147850 A1 ; "Richards") in view of Reisman (US 2002/0129094 A1), Glass (see PTO-892 mailed 11 December 2007) and Kikinis (US 2002/0049833 A1) do not teach on render obvious the limitations recited in claims 1, 24, 47 , when taken in the context of the claims as a software application, which is provided by the provisioning service in a markup language and which is displayable on the mobile device by the runtime environment program, wherein each independent instance of the software application receives a unique incarnation ID, which is used by the runtime environment program to uniquely associate data received from the server with a particular instance of the software application on the mobile device, the application data for use by the software application, and templates for use by the runtime environment program in displaying the software application and the application data therein, and wherein the application data at the mobile device is persisted locally with the database at the server when the connection between the mobile device and the server is available, including when the software application is either running or not running; and converting the messages received from the runtime environment program through an interface plugin configured for that mobile device type, into messages that are independent of mobile device type, for subsequent communication to the web service, and providing responses accordingly, including using the store and forward manager to store the responses at the server until the connection between the mobile device and the server is available as recited in the independent claims 1, 24, 47 . Moreover, evidence for modifying the prior art teachings by one of

Art Unit: 2194

ordinary skill level in the art was not uncovered so as to result in the invention as recited in claims 1, 24, 47 .

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272-3767. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Sough Hyung can be reached on (571) 272-6799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

/LeChi Truong/

Primary Examiner, Art Unit 2194